MYKROLIS LIBRARY

DOC'A DOT/D



1 JUN 2005



DOCKET NO. 3194,1025-009 (Mykrolis Ref.: 200300127)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1,67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

	METHOD FO	R PURIFYING CARBON DIOXID	E		
the specificati	on of which (check one)		<u> </u>		
[] is att	ached hereto.				
[] was f	filed on [] is United State	s Application Number []			
X) was f State		PCT International Application No.	PCT/US)3/3300	6 and ass	igned United
[X] and v	vas amended on April 15, 20	05 (if applicable).		4	
} here		l and understand the contains of the	above-identified	specifica	ilion,
pplication,	by expressly authorize the fi	information which is material in its statement of PCT international filing ling of an International Patent Appl	date of the contin	uation-in	-part
I here inited States of or patent or in-	by claim foreign priority ben	priority of the above-identified applefits under 35 U.S.C. 119 or 365 of have also identified below; by check PCT international application have	ETRIPATION LETRIPATION LETRIP	foreign agfore that	of than the oplication of the
incha)	(Country)	(Day/Month/Year filed)	Claimed	YES	Filed? J NO
nmpc1)	(Country)	(Day/Month/Year filed)	[]	[]	[]
umbor)	(Country)	(Day/Month/Year filed)	[]	[]	[]





I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

-2-

Inventor's Signature	Daniel Olyman	K-1/L	An april 17
Residence: City	State	Country	Citizenship
San Diego	CA CA	<u>"</u> US	USA
Mailing Address (Bus Street of P.O. Box	iness of Residential) 10208 Black Mountain Road, #		
City	State	ZIP	Country
San Diego	CA	92126	Country
Full name of second			
joint inventor, if any	Jeifrey J. Spiegelman		
Inventor's Signature			
Residence: City	State	Country	Citizenship
San Diego	Cá.	US	TISA
Mailing Address (Bus Street of P.O. Box	ines; of Residential) 5239 Meadows Del Mar		
City	State	ZIP	Country
San Diego	CA	92130	US
	Control of the Contro	A MARIE TO THE STATE OF THE STA	
Full name of third			
	Russell J. Holmes		
Inventor's Signature			
Residence: City	State	Country	Citizenship
Santee	CA	US	USA
Mailing Address (Busi Street of P.O. Box	ness or Residential)	The state of the s	1985
City	State	ZIP	Country
Santee	CA	92071	US
			- 05
	HBSR05;iManage;550315;1		



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

	✓ METHOD FOR PURIFYING CARBON DIOXIDE
the spec	ification of which (check one)
[]	is attached hereto.
[]	was filed on [] as United States Application Number [].
[X]	was filed on October 16, 2003 as PCT International Application No. PCT/US03/33006 and assigned United States Application No. 10/531,512.
[X]	and was amended on April 15, 2005 (if applicable).
includin	I hereby state that I have reviewed and understand the contents of the above-identified specification, g the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application.

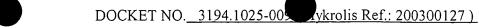
I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

	<u>Pr</u>	ior Foreign Application(s)	N	ority ot imed	Certi Copy I YES	
(Number)	(Country)	(Day/Month/Year filed)	[]	[]	[]
(Number)	(Country)	(Day/Month/Year filed)	[]	[]	[]
(Number)	(Country)	(Day/Month/Year filed)	[]	. [.]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Dan	iel Alvarez, Jr.					
Inventor's Signature						
Residence: City	State	Country	Citizenship			
San Diego	CA	US	USA			
Mailing Address (Business or Residential) Street or P.O. Box 10908 Black Mountain Road, #1						
City	State	ZIP	Country			
San Diego	CA	92126	US			
Full name of second joint inventor, if any Jeff	iey J. Spiegelmin	->				
Inventor's Signature						
Residence: City	State	Country	Citizenship			
San Diego	CA CA	US	USA			
Mailing Address (Business or Residential) Street or P.O. Box 5289 Meadows Del Mar						
City State ZIP Country						
San Diego	CA	92130	US			
Full name of third joint inventor, if any Rus	sell J. Holmes					
Inventor's Signature						
Residence: City	State	Country	Citizenship			
Santee	CA	US	USA			
Mailing Address (Business Street or P.O. Box 843	or Residential) 7 Rumson Drive					
City	State	ZIP	Country			
Santee CA 92071 US						

2-00



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

	1 5
	METHOD FOR PURIFYING CARBON DIOXIDE
the spe	cification of which (check one)
[]	is attached hereto.
[]	was filed on [] as United States Application Number [].
[X]	was filed on October 16, 2003 as PCT International Application No. PCT/US03/33006 and assigned United States Application No. 10/531,512.
[X]	and was amended on April 15, 2005 (if applicable).
includi	I hereby state that I have reviewed and understand the contents of the above-identified specification, ng the claims, as amended by any amendment referred to above.
§1.56, filing d	I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. including for continuation-in-part applications, material information which became available between the late of the prior application and the national or PCT international filing date of the continuation-in-part

I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

	<u>Prior</u>	r Foreign Application(s)	N	ority ot imed		Certi Copy ES	fied Filed? NO	
(Number)	(Country)	(Day/Month/Year filed)	[]	[]	[]
(Number)	(Country)	(Day/Month/Year filed)	[]	[]	[]
(Number)	(Country)	(Day/Month/Year filed)	[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Full name of sole or first inventor	Daniel Alvarez, Jr.		
	Inventor's Signature Residence: City	State	Country	Citizenship
	San Diego	CA	US	USA
	Mailing Address (Bus Street or P.O. Box	iness or Residential) 10908 Black Mountain Road, #1		
	City	State	ZIP	Country
	San Diego	CA	92126	US
	Full name of second			
	joint inventor, if any Inventor's Signature	Jeffrey J. Spiegelman		
	Residence: City	State	Country	Citizenship
	San Diego	CA	US	USA
	Mailing Address (Bus Street or P.O. Box	iness or Residential) 5289 Meadows Del Mar		
	City	State	ZIP	Country
	San Diego	CA	92130	US
CZ	Full name of third joint inventor, if any Inventor's Signature	Russell J. Holmes	1	hm
	Residence: City	State	Country	Citizenship
	Santee	CA CA	US	USA
	Mailing Address (Bus Street or P.O. Box	iness or Residential) 8437 Rumson Drive		
	City	State	ZIP	Country
	Santee	CA	92071	US

STATEMENT UNDER 37 C.F.R. § 3.73(b)

Invento	r(s):	Daniel Alvarez, Jr., Jeffrey J. Spiegelman and Russell J. Holmes
Applica	tion No.	Patent No.: 10/531,512 Filed/Issue Date: IA filing date: 10/16/03
For:	MET	HOD FOR PURIFYING CARBON DIOXIDE
	Mykı	rolis Corporation , a corporation (Name of Assignee) , Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states th	nat it is	
A.	[X]	the assignee of the entire right, title and interest in the patent application identified above; or
B.	[]	an assignee together with [] of the entire right, title and interest in the patent application identified above.
The rig		nd interest of the above-named assignee in the patent application identified above is established by
A. [X		gnment from the inventor(s) of the patent application identified above. The assignment was recorded atent and Trademark Office at Reel [], Frame [], or a copy thereof is attached.
OR		
B.[]	A chain shown l	of title from the inventor(s) of the patent application identified above, to the current assignee as pelow:
	1.	From: To: The document was recorded in the United States Patent and Trademark Office at
		Reel, Frame, or a copy thereof is attached.
	2.	From: To: The document was recorded in the United States Patent and Trademark Office at
		The document was recorded in the United States Patent and Trademark Office at Reel, or a copy thereof is attached.
	3.	From: To:
		The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or a copy thereof is attached.
	[] Ad	ditional documents in the chain of title are listed on a supplemental sheet.
The unc	dersigned	(whose title is supplied below) is authorized to act on behalf of the assignee.
Signatu	re Pe	to Who alcott
Name:_	Peter	W. Walcott
Title:	Vice	President, General Counsel, Secretary
Date:	May 3	31, 2005



Recapet/PTG 21 JUN 2005

Docket No. 3194.1025-009 (Mykrolis Ref. No.: 200300127)

Joint

ASSIGNMENT

WHEREAS, we, Daniel Alvarez, Jr., Jeffrey J. Spiegelman and Russell J. Holmes, have invented a certain improvement in METHOD FOR PURIFYING CARBON DIOXIDE described in an application for Patent,

Į J	(use for utility (37 CFR \S 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[]	the specification of which is United States Application No. [], filed [];
[X]	the specification of which is a Patent Cooperation Treaty Application, International Application No. PCT/US03/33006, filed October 16, 2003, which designates the United States of America and assigned United States Application No. 10/531,512;
[]	which was patented under United States Patent No. [].

WHEREAS, Mykrolis Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 129 Concord Road, Billerica, Massachusetts 01821 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application. together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

Docket No. 3194.1025-009 (Mykrolis Ref. No.: 200300127)

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Daniel (Massex)
Daniel Alvarez, Jr.
State/Commonwealth U
of <u>Californie</u>
County of San Diago
On this 7th day of 1000, 2005, before me, the undersigned notary public, personally appeared Daniel Alvarez, Jr.,
personally known to me, or
proved to me through satisfactory evidence of identification, which was CAN # N8465933
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
OFFICIAL SEAL ABE ALBANNA OFFICIAL SEAL NOTARY Public
NOTARY PUBLIC CALIFORNIA POR A Danne (print name)
MY COMM. EXP. MAY 11, 2001 Vy Commission expires 05/11/206

Docket No. 3194.1025-009 (Mykrolis Ref. No.: 200300127)

Inventor's Signature:
State/Commonwealth
of
County of
On this, 20, before me, the undersigned notary public, personally appeared Jeffrey J. Spiegelman ,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public
(print name)
My Commission expires/
Inventor's Signature:
State/Commonwealth of Californic County of San Diego
On this 31 day of May, 2005, before me, the undersigned notary public, personally appeared Russell J. Holmes,
personally known to me, or
proved to me through satisfactory evidence of identification, which was CADE # A6440209
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
OFFICIAL SEAL ABE ALBANNA NOTARY PUBLIC-CALIFORNIA ABEAL COMM. NO. 1417192 SAN DIEGO COUNTY MY COMM. EXP. MAY 11, 2007 MY COMM. EXP. MAY 11, 2007



r٦

Docket No. 3194.1025-009 (Markrolis Ref. No.: 200300127)

<u>Joint</u>

<u>ASSIGNMENT</u>

WHEREAS, we, Daniel Alvarez, Jr., Jeffrey J. Spiegelman and Russell J. Holmes, have invented a certain improvement in METHOD FOR PURIFYING CARBON DIOXIDE described in an application for Patent,

[]	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application;
[]	the specification of which is United States Application No. [], filed [];
[X]	the specification of which is a Patent Cooperation Treaty Application, International Application No. PCT/US03/33006, filed October 16, 2003, which designates the United States of America and assigned United States Application No. 10/531,512;
[]	which was patented under United States Patent No. [].

WHEREAS, Mykrolis Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 129 Concord Road, Billerica, Massachusetts 01821 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

Docket No. 3194.1025-009 (Mykrolis Ref. No.: 200300127)

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the

	Do	cket No. 319	94.1025-0	09 (Mykrolis Ref. No.: 200300127		
Inventor's Signature:		1 <	2			
State/Commonwealth		Jef	frey J.)Sp	oiegelman		
of <u>Californi</u>						
County of Jan	Diego					
On this 31 notary public, personall	day ofM y appeared Jeffr	κγ ey J. Spiege	, 20 <u>0</u> lman,	, before me, the undersigned		
personally know	n to me, or					
proved to me through satisfactory evidence of identification, which was						
				ument in my presence, and is/her free act and deed.		
OFFICIAL ABE ALB/ NOTARY PUBLIC	ANNA CALIFORNIA	alber	m4	Notary Public		
COMM. NO. SAN DIEGO C MY COMM, EXP. N	1417192 TA			(print name)		
	My Comm	nission expir	es <u>05</u>	11/2007		
				•		
Inventor's Signature:						
State/Commonwealth		R	ussell J. H	lolmes		
of						
County of						
On this	lay of		, 20	, before me, the undersigned		
notary public, personally	appeared Russe	ell J. Holme	S,			
personally known	to me, or					
proved to me through satisfactory evidence of identification, which was						
	name was signed	on the foreg	oing instr	ument in my presence, and		
(SEAL)	<u> </u>			Notary Public		
				(print name)		
	My Comm	ission expire	es	/ <u></u> /		